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# **CANADIAN PATENT**

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**GARMENT HANGERS BAR ASSEMBLY**

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**PRIORITY DATE**

**No. OF CLAIMS** 4

ABSTRACT OF THE DISCLOSURE

A bar assembly adapted to be used into a transportable wardrobe, as the carton or cardboard wardrobes used by movers, including a main bar arranged to support the garment hangers and an auxiliary bar adapted to lock the garment hangers onto the main bar. The latter includes a row of more than two apertures therethrough and the locking bar includes a row of a corresponding number of nibs having lateral dents and adapted to lockingly and adjustably engage into the corresponding apertures to adjustably secure the locking bar onto the main bar, such that thereafter the nibs must be torn off to free the garment hangers. A bar assembly including a garment hanger carrying bar, hooks at opposite ends of the latter, and locking bar integrally formed from a flexible plastic material.

This invention relates to transportable wardrobes and, more particularly, to a garment hanger bar assembly for such wardrobes.

The movers are now commonly transporting garments onto garment hangers hung into a carton or cardboard wardrobe. The garment hangers are then carried by a bar extending transversely into the upper end of the transportable wardrobe. Auxiliary bars have also been proposed and used in conjunction with the main bar carrying the garment hangers. However, such auxiliary bars do not restrain the garment hangers lengthwise of the main bar. Furthermore, the known auxiliary bars must be relatively stiff and strongly attached to the main bars. There results auxiliary bars which are relatively heavy and expensive.

It is a general object of the invention to provide an auxiliary bar which is adapted to retain the garment hangers onto a main bar into a transportable wardrobe and which is relatively better suited for such use.

It is another general object of the invention to provide a garment hanger bar assembly including a main and an auxiliary bars which are relatively better adapted to be thrown away after use.

It is a further general object of the invention to provide a garment hanger bar assembly including a garment hanger locking bar which is of relatively simple and inexpensive construction, is easy to use and which does not slide laterally relative to the carton.

It is a more specific object of the invention to provide a garment hanger bar assembly including a main bar and an auxiliary garment hanger locking bar which are supplied integrally attached such that the latter comes with the main bar to be more conveniently available.

It is another specific object of the invention to provide a garment hanger bar assembly including a main garment hanger carrying bar and a garment hanger locking bar wherein the latter is connected to the main bar at spaced-apart points thereof to restrain the longitudinal displacement of the hangers along the same and keep the clothes properly spaced apart.



The invention will now be described in detail with reference to a preferred embodiment thereof which is illustrated, by way of example only, in the accompanying drawings, wherein:

Figure 1 is a perspective view of a garment hanger bar assembly according to the invention, shown in the original form;

Figure 2 is a partial perspective view illustrating the manner of freeing the locking strip to operatively use the latter;

Figure 3 is a cross-sectional view of the garment hanger carrying bar showing a garment hanger thereon;

10 Figure 4 is a cross-sectional view as seen along line 4-4 in Figure 5;

Figure 5 is a cross-sectional view through a cardboard wardrobe showing a side view of the garment hanger bar assembly in operative position;

Figure 6 is a partial perspective view of the locking strip; and

Figure 7 is a cross-section on line 7-7 of Figure 4.

The garment hanger bar assembly, as shown in Figure 1 in the form into which it is fabricated and distributed, includes a hanger bar 1 which is transversely curved to suspend the hooks 2 of hangers 3 thereon. A hook 4 is integrally formed with the hanger bar 1 at each end thereof. The hooks 4 are arranged to engage over the top folds 7 of the opposite sides 5 and 6 of a carton or cardboard wardrobe 7, with the closure flaps 7' folded and taped or stapled over the bar. As shown in Figure 7, each hook 4 has an inverted U-shape with inner reinforcing relatively thin ribs 4' forming an inverted V-shape element to engage the top cardboard fold 7" with an indentation fit under the weight of the garment and thus prevent slipping of the hook 4 on the top fold 7". A row of elongated apertures 8 are formed through the bar 1.

A locking strip 9 is also integrally formed with the hanger bar 1 and severably attached thereto by lugs 10. A row of nibs 11 project from one side of the locking strip 9 and are arranged to register and engage with the apertures 8. Each nib 11 is formed with dents 12 along opposite side edges thereof.

Preferably, the garment hanger bar 1 and the locking strip

9 are supplied attached to each other to have them readily available for use; this can be readily obtained since the assembly of bar 1 and strip 9 is preferably made of synthetic resin by injection molding.

After the garments 13 have been conventionally loaded into a carton or cardboard wardrobe 7, the hangers 3 are reasonably spreaded apart and the locking strip 9 is then secured longitudinally onto the garment hanger bar 1 by pressing the nibs 11 into the corresponding apertures 8 until the dents 12 lock against the underside of the bar 1.

The hangers 3 are thereafter released by pulling on the locking strip 9 and tearing, if required, the nibs 11.

The locking strips could be separately supplied, if desired, such that the bar 1 could be re-used.

In its unloaded condition, the bar 1 is longitudinally curved to have a slightly convex top, as shown in Figure 1; this curvature, together with suitable reinforcing ribs and reinforcing transverse webs 14 (figure 4), nearly doubles the load supporting capacity of bar 1 compared to straight bars of the same size and wall thickness and with no reinforcement. When sufficiently loaded, the bar 1 becomes straight, as seen in Figure 5. Although nibs 11 are shown as being integral with locking strip 9, it is contemplated that they could project from the top of bar 1 and apertures 8 would then be made through locking strip 9.

THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY

OR PRIVILEGE IS CLAIMED, ARE DEFINED AS FOLLOWS:

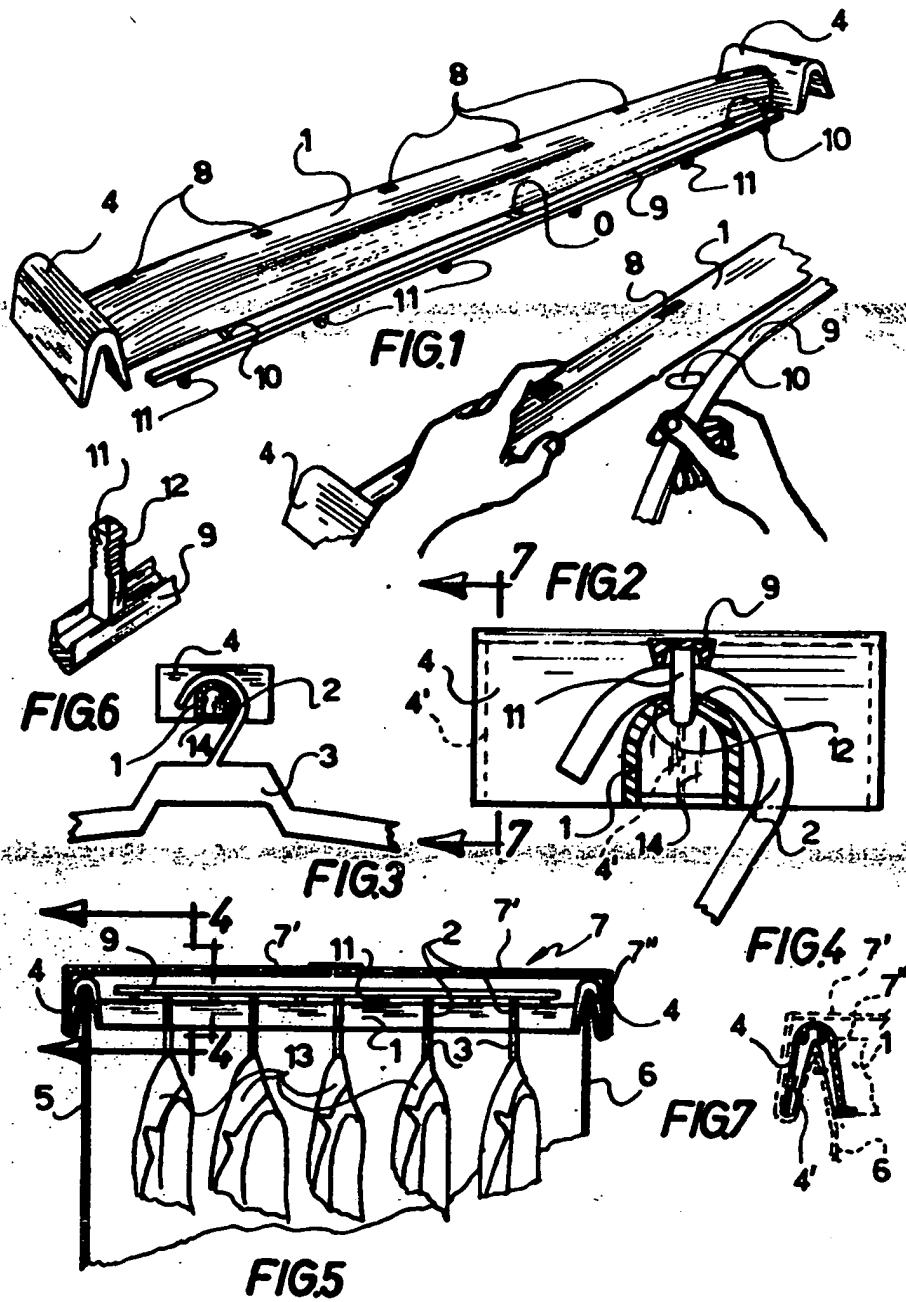
1- A garment hanger bar assembly comprising a bar constructed and arranged to be engaged by the hook of garment hangers to suspend the latter therefrom, a hook means secured to each end of said bar and constructed and arranged to hook the latter onto top edges of opposite sides of a transportable wardrobe, and a locking strip to retain said hook hangers onto said bar, one of said strip and bar having more than two laterally projecting ribs integral with said bar and spaced along the length thereof, the other of said strip and bar having as many apertures as there are ribs extending therethrough and spaced apart from each other lengthwise of the same, said ribs having lateral dents to lockingly and adjustably engage into the respective apertures.

2- A garment hanger bar assembly as defined in claim 1, wherein said bar, said hook means, and said locking strip are integrally formed of plastic material and said locking strip is severably attached to said bar.

3- A garment hanger bar assembly as defined in claim 2, wherein said bar is longitudinally curved intermediate said hook means to present a top convex surface when unloaded.

4- A garment hanger bar assembly as defined in claim 2 or 3, wherein said hooks have an inverted U-shape and have inner reinforcing relatively thin ribs forming inverted V-shaped elements to have an indentation fit with the top of a cardboard box supporting said bar.





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